



[Subscribe \(Full Service\)](#) [Register \(Limited Service, Free\)](#) [Login](#)

Search:  The ACM Digital Library  The Guide

+ "programmable logic controller" + "graphical user interface"

**SEARCH**

THE ACM DIGITAL LIBRARY

[Feedback](#) [Report a problem](#) [Satisfaction survey](#)

Terms used [programmable logic controller graphical user interface](#)

Found 6 of 169,166

Sort results by   [Save results to a Binder](#)

Try an [Advanced Search](#)  
Try this search in [The ACM Guide](#)

Display results   [Search Tips](#)

[Open results in a new window](#)

Results 1 - 6 of 6

Relevance scale



1 [Embedded Systems News](#)

Rick Lehrbaum

July 2000 **Linux Journal**

Publisher: Specialized Systems Consultants, Inc.

Full text available:  [html\(8.60 KB\)](#) Additional Information: [full citation](#), [index terms](#)



2 [Papers: Tactile user interface: Phidgets: easy development of physical interfaces through physical widgets](#)

Saul Greenberg, Chester Fritchett

November 2001 **Proceedings of the 14th annual ACM symposium on User interface software and technology**

Publisher: ACM Press

Full text available:  [pdf\(1.35 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Physical widgets or *phidgets* are to physical user interfaces what widgets are to graphical user interfaces. Similar to widgets, phidgets abstract and package input and output devices: they hide implementation and construction details, they expose functionality through a well-defined API, and they have an (optional) on-screen interactive interface for displaying and controlling device state. Unlike widgets, phidgets also require: a connection manager to track how devices appear on-line; a ...



3 [Linux in a Scientific Laboratory](#)

Przemek Klosowski, Nick Maliszewskyj, Bud Richardson

July 1998 **Linux Journal**

Publisher: Specialized Systems Consultants, Inc.

Full text available:  [html\(29.31 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The authors tell us how they use Linux daily to fulfill the requirements of their lab



4 [Future of simulation: Future of simulation software: the current and future status of simulation software \(panel\)](#)

Robert Diamond, James O. Henriksen, C. Dennis Pegden, Anthony P. Waller, Charles R. Harrell, William B. Nordgren, Matthew W. Rohrer, Averill M. Law

December 2002 **Proceedings of the 34th conference on Winter simulation: exploring new frontiers**

Publisher: Winter Simulation Conference

Full text available:  [pdf\(208.66 KB\)](#) Additional Information: [full citation](#), [abstract](#)

In this panel, principal members of seven leading simulation-software companies discuss two important questions concerning the current and future status of simulation software.

**5 Are you interested in computers and electronics?**



 David Abramson, Gordon Lowe, Peter Atkinson

December 2000 **Proceedings of the Australasian conference on Computing education ACSE '00**

Publisher: ACM Press

Full text available:  [pdf\(560.32 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

*Secondary school students, when investigating tertiary study, have little opportunity to discover what a particular course has to offer and often have a poor understanding of employment options in that field. Further, many secondary schools have limited resources, and are thus unable to provide career advice in any detail.*

*Whilst University Open Days' are a good opportunity for information seeking, we often experience parents driving the direction of the student's choice.*

**6 Simulation of advanced manufacturing systems**



Gerald W. Evans, William E. Biles, Michael W. Golway

December 1994 **Proceedings of the 26th conference on Winter simulation**

Publisher: Society for Computer Simulation International

Full text available:  [pdf\(838.39 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Results 1 - 6 of 6

The ACM Portal is published by the Association for Computing Machinery. Copyright © 2005 ACM, Inc.

[Terms of Usage](#) [Privacy Policy](#) [Code of Ethics](#) [Contact Us](#)

Useful downloads:  [Adobe Acrobat](#)  [QuickTime](#)  [Windows Media Player](#)  [Real Player](#)

[Subscribe \(Full Service\)](#) [Register \(Limited Service, Free\)](#) [Login](#)[Search:](#)  The ACM Digital Library  The Guide

+"programmable logic controller" +"voltage drop"

**SEARCH**

## Nothing Found

Your search for **+"programmable logic controller" +"voltage drop"** did not return any results.

You may want to try an [Advanced Search](#) for additional options.

Please review the [Quick Tips](#) below or for more information see the [Search Tips](#).

### Quick Tips

- Enter your search terms in lower case with a space between the terms.

sales offices

You can also enter a full question or concept in plain language.

Where are the sales offices?

- Capitalize proper nouns to search for specific people, places, or products.

John Colter, Netscape Navigator

- Enclose a phrase in double quotes to search for that exact phrase.

"museum of natural history" "museum of modern art"

- Narrow your searches by using a **+** if a search term must appear on a page.

museum +art

- Exclude pages by using a **-** if a search term must not appear on a page.

museum -Paris

Combine these techniques to create a specific search query. The better your description of the information you want, the more relevant your results will be.

museum +"natural history" dinosaur -Chicago

The ACM Portal is published by the Association for Computing Machinery. Copyright © 2005 ACM, Inc.

[Terms of Usage](#) [Privacy Policy](#) [Code of Ethics](#) [Contact Us](#)

Useful downloads: [!\[\]\(2bdfe261b986065ee0ac76460d6528c9\_img.jpg\) Adobe Acrobat](#) [!\[\]\(eebbd3dc1abeccf4c1e5751ec03fc559\_img.jpg\) QuickTime](#) [!\[\]\(269a46bd9f0c528dd4b0b2018aec306d\_img.jpg\) Windows Media Player](#) [!\[\]\(ca9b99849d19f75ed2add026e1deb81c\_img.jpg\) Real Player](#)

[Subscribe \(Full Service\)](#) [Register \(Limited Service, Free\)](#) [Login](#)Search:  The ACM Digital Library  The Guide

+"programmable logic controller" +"current consumption"

**SEARCH**

## Nothing Found

Your search for +"programmable logic controller" +"current consumption" did not return any results.

You may want to try an [Advanced Search](#) for additional options.

Please review the [Quick Tips](#) below or for more information see the [Search Tips](#).

### Quick Tips

- Enter your search terms in lower case with a space between the terms.

sales offices

You can also enter a full question or concept in plain language.

Where are the sales offices?

- Capitalize proper nouns to search for specific people, places, or products.

John Colter, Netscape Navigator

- Enclose a phrase in double quotes to search for that exact phrase.

"museum of natural history" "museum of modern art"

- Narrow your searches by using a **+** if a search term must appear on a page.

museum +art

- Exclude pages by using a **-** if a search term must not appear on a page.

museum -Paris

Combine these techniques to create a specific search query. The better your description of the information you want, the more relevant your results will be.

museum +"natural history" dinosaur -Chicago

The ACM Portal is published by the Association for Computing Machinery. Copyright © 2005 ACM, Inc.

[Terms of Usage](#) [Privacy Policy](#) [Code of Ethics](#) [Contact Us](#)

Useful downloads: [!\[\]\(5eb1325dfdc3f1cad8426726c0db51cd\_img.jpg\) Adobe Acrobat](#) [!\[\]\(312638b5686dbc3f6ff8424fd17b3fb2\_img.jpg\) QuickTime](#) [!\[\]\(88e39a015d99d67943a7ca963c140a17\_img.jpg\) Windows Media Player](#) [!\[\]\(8d24dd9a445af8db71ca36d03e35a691\_img.jpg\) Real Player](#)

**PORTAL**

USPTO

Subscribe (Full Service) Register (Limited Service, Free) Login

Search:  The ACM Digital Library  The Guide

+ "programmable logic controller" +weight

## THE ACM DIGITAL LIBRARY

 [Feedback](#) [Report a problem](#) [Satisfaction survey](#)

Terms used programmable logic controller weight

Found 16 of 169,166

Sort results by   Save results to a Binder

Try an [Advanced Search](#)  
Try this search in [The ACM Guide](#)

Display results   Search Tips

Open results in a new window

Results 1 - 16 of 16

Relevance scale **1 Re-usable software design for programmable logic controllers**

 Flavio Bonfatti, Gianni Gadda, Paola Daniela Monari  
November 1995 **ACM SIGPLAN Notices , Proceedings of the ACM SIGPLAN 1995 workshop on Languages, compilers, & tools for real-time systems LCTES '95**, Volume 30 Issue 11

**Publisher:** ACM Press

Full text available:  [pdf\(955.71 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

It is the aim of this paper to present a model conceived for supporting the initial, critical phases of PLC software life cycle, namely requirement specification, requirement analysis and software design, to obtain reusable code. The model, named EASIER, is based on an object-oriented paradigm where the message-method mechanism is replaced by the law and action primitives, since they are more suitable to cope with the real-time, cyclic nature of PLC software. Software re-usability is pursued by ...

**2 A sortation system model**

 Arun Jayaraman, Ramu Narayanaswamy, Ali K. Gunal  
December 1997 **Proceedings of the 29th conference on Winter simulation**

**Publisher:** ACM Press

Full text available:  [pdf\(577.53 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**3 AutoMod product suite tutorial (AutoMod, Simulator, AutoStat) by AutoSimulations**

 Matthew Rohrer  
December 1999 **Proceedings of the 31st conference on Winter simulation: Simulation--a bridge to the future - Volume 1**

**Publisher:** ACM Press

Full text available:  [pdf\(151.78 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**4 Software/modelware tutorials I: AutoMod product suite: AutoMod tutorial**

Matthew W. Rohrer  
December 2000 **Proceedings of the 32nd conference on Winter simulation**

**Publisher:** Society for Computer Simulation International

Full text available:  [pdf\(528.90 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Whether designing a new system or modifying an existing one, engineers want to take the guesswork out of finding the best possible solution. While there are many analysis methods for designing industrial systems, simulation remains the method that gives the highest level of confidence a system will work. A well-written simulation model can be a valuable tool in the design, analysis, and operation of manufacturing and other complex systems. The AutoMod™ Product Suite from AutoSimulati ...

5 [Simulation-based scheduling: Dynamic scheduling II: SIMUL8-planner simulation-based planning and scheduling](#)

Kieran H. Concannon, Kim I. Hunter, Jillian M. Tremble

December 2003 **Proceedings of the 35th conference on Winter simulation: driving innovation**

Publisher: Winter Simulation Conference

Full text available:  [pdf\(494.55 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

This paper provides an introduction to the technique of simulation-based production planning and scheduling, a fast growing and popular area in the simulation industry. SIMUL8 and Visual8 Corporations have collaborated to develop a new software application called SIMUL8-Planner that assists in the development of this type of system. The following document outlines some of the requirements, advantages, and features within this exciting new product.

6 [Software/modelware tutorials a: Maximizing simulation ROI with AutoMod: maximizing simulation ROI with AutoMod](#)

Matthew W. Rohrer

December 2003 **Proceedings of the 35th conference on Winter simulation: driving innovation**

Publisher: Winter Simulation Conference

Full text available:  [pdf\(525.66 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Simulation modeling and analysis requires an investment in human resources and software. And the rewards from using simulation are significant. Many companies fine tune their operations and reduce waste using simulation. But in the end, every time modeling and analysis are performed, a decision has to be made whether the simulation is "worth doing" (Waite 1999). In this paper we will enumerate how AutoMod has been used to improve return on investment (ROI) from simulation.

7 [Robotics](#)



F. L. Lewis, M. Fitzgerald, K. Liu

March 1996 **ACM Computing Surveys (CSUR)**, Volume 28 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(164.42 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

8 [Software/modelware tutorials a: AutoMod: simulating reality using AutoMod](#)

Matthew W. Rohrer, Ian W. McGregor

December 2002 **Proceedings of the 34th conference on Winter simulation: exploring new frontiers**

Publisher: Winter Simulation Conference

Full text available:  [pdf\(348.02 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Decision making in industry has become more complicated in recent years. Customers are more demanding, competition is more fierce; and costs for labor and raw materials continue to rise. Managers need state-of-the-art tools to help in planning, design, and operations of their facilities. Simulation provides a virtual factory where ideas can be tested and performance improved. The AutoMod product suite from Brooks-PRI Automation has been used on thousands of projects to help engineers and mana ...

9 Software/modelware tutorials: AutoMod: the AutoMod product suite tutorial

Brian Stanley

December 2001 **Proceedings of the 33nd conference on Winter simulation**

Publisher: IEEE Computer Society

Full text available:  pdf(290.43 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Whether designing a new system or modifying an existing one, engineers want to take the guesswork out of finding the best possible solution. While there are many analysis methods for designing industrial systems, simulation remains the method that provides the highest level of confidence that a system will perform. A well-written simulation model can be a valuable tool in the design, analysis, and operation of manufacturing and other complex systems. The *AutoMod* Product Suite from Brooks ...

10 Linux in a Scientific Laboratory

Przemek Klosowski, Nick Maliszewskyj, Bud Richardson

July 1998 **Linux Journal**

Publisher: Specialized Systems Consultants, Inc.

Full text available:  html(29.31 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The authors tell us how they use Linux daily to fulfill the requirements of their lab

11 Risk on the rails

 Peter G. Neumann

July 1993 **Communications of the ACM**, Volume 36 Issue 7

Publisher: ACM Press

Full text available:  pdf(864.84 KB) Additional Information: [full citation](#), [index terms](#)

12 Testing I: Blowtorch: a framework for firewall test automation

 Daniel Hoffman, Kevin Yoo

November 2005 **Proceedings of the 20th IEEE/ACM international Conference on Automated software engineering ASE '05**

Publisher: ACM Press

Full text available:  pdf(127.60 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Firewalls play a crucial role in network security. Experience has shown that the development of firewall rule sets is complex and error prone. Rule set errors can be costly, by allowing damaging traffic in or by blocking legitimate traffic and causing essential applications to fail. Consequently, firewall testing is extremely important. Unfortunately, it is also hard and there is little tool support available. Blowtorch is a C++ framework for firewall test generation. The central construct is the ...

**Keywords:** automated testing, capture/replay, covering array, network firewall, production grammar

 Risks to the public: Risks to the public in computers and related systems

Peter G. Neumann

May 2002 **ACM SIGSOFT Software Engineering Notes**, Volume 27 Issue 3

**Publisher:** ACM Press

Full text available:  pdf(1.92 MB) Additional Information: [full citation](#)



**14 Manufacturing applications: Simulation of factory operations: simulation in daily factory operation: 'setting the line bogey in Augusta'**

Gordon D. Rehn

December 2000 **Proceedings of the 32nd conference on Winter simulation**

**Publisher:** Society for Computer Simulation International

Full text available:  pdf(149.18 KB) Additional Information: [full citation](#), [abstract](#), [references](#)



The John Deere Augusta Works uses discrete event simulation in predicting assembly line output as a function of varying model and option mix quantities in daily production schedules. The most unique aspect of this application is not necessarily how it is used but who uses the model. Prior to each production day, a Union representative executes the model, and the simulation results establish the target production goal for the day. Day-to-day wages are based on the actual production attained relat ...

**15 Q Focus: RFID: Integrating RFID**

 Sanjay Sarma

October 2004 **Queue**, Volume 2 Issue 7

**Publisher:** ACM Press

Full text available:  pdf(1.09 MB)  html(28.58 KB) Additional Information: [full citation](#), [index terms](#)



**16 Formal interpreters for diagram notations**

 Luciano Baresi, Mauro Pezzè

January 2005 **ACM Transactions on Software Engineering and Methodology (TOSEM)**,

Volume 14 Issue 1

**Publisher:** ACM Press

Full text available:  pdf(834.85 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



The article proposes an approach for defining extensible and flexible formal interpreters for diagram notations with significant dynamic semantics. More precisely, it addresses semi-formal diagram notations that have precisely-defined syntax, but informally defined (dynamic) semantics. These notations are often flexible to fit the different needs and expectations of users. Flexibility comes from the incompleteness or informality of the original definition and results in different interpretations ...

**Keywords:** Semi-formal notations, graph transformation, high-level Petri nets, semantics

Results 1 - 16 of 16

The ACM Portal is published by the Association for Computing Machinery. Copyright © 2005 ACM, Inc.

[Terms of Usage](#) [Privacy Policy](#) [Code of Ethics](#) [Contact Us](#)

Useful downloads:  [Adobe Acrobat](#)  [QuickTime](#)  [Windows Media Player](#)  [Real Player](#)

 [Subscribe \(Full Service\)](#) [Register \(Limited Service, Free\)](#) [Login](#)

**Search:**  The ACM Digital Library  The Guide

+ "programmable logic controller" +width

## THE ACM DIGITAL LIBRARY

 [Feedback](#) [Report a problem](#) [Satisfaction survey](#)

Terms used [programmable logic controller width](#)

Found 1 of 169,166

Sort results by  relevance  Save results to a Binder  
 Search Tips  
 Display results  expanded form  Open results in a new window

Try an [Advanced Search](#)  
 Try this search in [The ACM Guide](#)

Results 1 - 1 of 1

Relevance scale 

1  [Q Focus: RFID: Integrating RFID](#)  
 Sanjay Sarma  
 October 2004 [Queue](#), Volume 2 Issue 7  
 Publisher: ACM Press  
 Full text available:  pdf(1.09 MB)  html(28.58 KB) Additional Information: [full citation](#), [index terms](#)

Results 1 - 1 of 1

The ACM Portal is published by the Association for Computing Machinery. Copyright © 2005 ACM, Inc.  
[Terms of Usage](#) [Privacy Policy](#) [Code of Ethics](#) [Contact Us](#)

Useful downloads:  [Adobe Acrobat](#)  [QuickTime](#)  [Windows Media Player](#)  [Real Player](#)

[Home](#) | [Login](#) | [Logout](#) | [Access Information](#) | [Alerts](#) |

Welcome United States Patent and Trademark Office

 [Search Results](#)[BROWSE](#)[SEARCH](#)[IEEE XPOLE GUIDE](#)

Results for "((programmable logic controller' and 'current consumption')&lt;in&gt;metadata)"

 [e-mail](#)

Your search matched 0 documents.

A maximum of 100 results are displayed, 25 to a page, sorted by **Relevance** in **Descending** order.» [Search Options](#)[View Session History](#)[Modify Search](#)[New Search](#) [»»](#) Check to search only within this results setDisplay Format:  Citation  Citation & Abstract» [Key](#)

IEEE JNL IEEE Journal or Magazine

IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

**No results were found.**

Please edit your search criteria and try again. Refer to the Help pages if you need assistance.

[Help](#) [Contact Us](#) [Privacy &](#)

© Copyright 2005 IEEE -

Indexed by

[Home](#) | [Login](#) | [Logout](#) | [Access Information](#) | [Alerts](#) |

Welcome United States Patent and Trademark Office

[Search Results](#)[BROWSE](#)[SEARCH](#)[IEEE Xplore GUIDE](#)

Results for "((programmable logic controller' and 'voltage drop')&lt;in&gt;metadata)"

 [e-mail](#)

Your search matched 0 documents.

A maximum of 100 results are displayed, 25 to a page, sorted by **Relevance in Descending** order.[» Search Options](#)[View Session History](#)[Modify Search](#)[New Search](#) [» Key](#)

IEEE JNL IEEE Journal or Magazine

IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

Display Format:  Citation  Citation & Abstract Check to search only within this results set**No results were found.**

Please edit your search criteria and try again. Refer to the Help pages if you need assistance.

Indexed by  
[Help](#) [Contact Us](#) [Privacy &](#)

© Copyright 2005 IEEE -

[Home](#) | [Login](#) | [Logout](#) | [Access Information](#) | [Alerts](#) |

Welcome United States Patent and Trademark Office

[Search Results](#)[BROWSE](#)[SEARCH](#)[IEEE XPORE GUIDE](#)

Results for "((programmable logic controller' and 'graphical user interface')<in>metadata)"  
Your search matched 4 of 1286976 documents.

[e-mail](#)

A maximum of 100 results are displayed, 25 to a page, sorted by **Relevance in Descending** order.

**» Search Options**[View Session History](#)[Modify Search](#)[New Search](#) [»](#)**» Key**

IEEE JNL IEEE Journal or Magazine

IEE JNL IEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEE CNF IEE Conference Proceeding

IEEE STD IEEE Standard

[Select](#)   [Article Information](#)

Check to search only within this results set

Display Format:  Citation  Citation & Abstract

1. **Recent improvements to the DIII-D neutral beam instrumentation and control system**  
Kellman, D.H.; Hong, R.;  
Fusion Engineering, 1997. 17th IEEE/NPSS Symposium  
Volume 2, 6-10 Oct. 1997 Page(s):807 - 810 vol.2  
Digital Object Identifier 10.1109/FUSION.1997.687748  
[AbstractPlus](#) | Full Text: [PDF\(404 KB\)](#) IEEE CNF

2. **An integrated system for electrical systems applications using genetic algorithms**  
Cordero Diaz, A.;  
Intelligent Control, 1997. Proceedings of the 1997 IEEE International Symposium  
16-18 July 1997 Page(s):431 - 434  
Digital Object Identifier 10.1109/ISIC.1997.626545  
[AbstractPlus](#) | Full Text: [PDF\(376 KB\)](#) IEEE CNF

3. **Visual programming expedites process control [of power stations]**  
Isomura, S.; Katoh, M.;  
Computer Applications in Power, IEEE  
Volume 9, Issue 4, Oct. 1996 Page(s):52 - 57  
Digital Object Identifier 10.1109/67.539848  
[AbstractPlus](#) | Full Text: [PDF\(1912 KB\)](#) IEEE JNL

4. **Is the role of applied programming languages changing?**  
Honchell, J.W.; Robertson, T.L.;  
Frontiers in Education Conference, 1996. FIE '96. 26th Annual Conference., Paper  
Volume 2, 6-9 Nov. 1996 Page(s):791 - 794 vol.2  
Digital Object Identifier 10.1109/FIE.1996.573070  
[AbstractPlus](#) | Full Text: [PDF\(420 KB\)](#) IEEE CNF